

## ANNUAL WATER MANAGEMENT PLAN 1995-1996

Arapaho National Wildlife Refuge  
Walden, CO

### I. General

Arapaho National Wildlife Refuge uses four primary sources of water to provide irrigation, maintain pond levels and sustain riparian vegetation for wildlife. These four sources include the Illinois River, Spring Creek, Antelope Creek, and Potter Creek. Seventeen different headgate structures divert water out of the Illinois River into more than 70 miles of primary delivery ditches. This water supplies 77 ponds with over 805 surface acres of water during a normal year. It is also used to flood irrigate 8,000 acres of meadow to maintain and perpetuate quality waterfowl breeding, nesting and brood rearing habitat.

The Illinois River opened in early March with a minimal flow. Actual cubic feet per second is not known since the headquarters bridge river gauge was removed for construction purposes. This gage will be replaced in the spring of 1996. The river remained low until early May when heavy rains and snows recharged the river, taking it from record low flows to flooding. The Illinois River peaked during June with the highest flows in years and remained high throughout the month. The high waters subsided in July, with average flows continuing through the fall. The Illinois River remained open late in the year not freezing completely until late December.

The refuge began diverting water the first of March as ditches and headgates became ice free. This water was desperately needed to fill refuge ponds and wetlands which were 50% less than normal. Water operations were short lived as the Walden Reservoir Company made a call on the Illinois River on March 3rd to fill Walden Reservoir. All refuge headgates but the Hubbard #2 had to be closed, making the outlook for refuge wetlands bleak. In April, with water levels continuing to be exceedingly low, the Jackson County Water Commissioner required the refuge to pull all boards in the water control structures of dry ponds and to pull boards of low ponds to water level. This was done to allow what little irrigation water there was to flow through ponds and back to the river. The water situation improved rapidly in May when record amounts of precipitation fell and the Water Commissioner permitted the refuge to re-install all water control structure boards, filling all wetlands. Most ditch headgates were dry or closed in August, with refuge wetlands in excellent condition.

Precipitation in 1995 was 18.16 inches, nearly double the normal annual precipitation, with snowfall measuring 72.3 inches in Walden. Refuge water conditions in the early spring were exceptionally poor with approximately 40% of normal open water habitat. High precipitation, 8.71 inches, in late April, May and early June elevated refuge water

conditions from extremely poor to flood stages. July and August were dry, but the fall was wet, leaving refuge wetlands in great condition for the spring of 1996. Heavy snows in January have increased the surrounding mountains snowpack to over 140 percent of normal. If precipitation levels remain high, it could be another spring of flooding.

## II. Purpose and Methods

Spring run-off is diverted from natural water courses into delivery ditches to provide wetlands and irrigation systems with water. Approximately 8,000 acres of meadows are irrigated during an average water year to provide quality breeding, nesting, and brooding habitat. Numerous ponds and impoundments are also managed via diverted water each year.

Current water management practices greatly depend on winter snow packs, spring moisture and downstream water demands. However, during normal water years, the following schedule is used to provide general guidance:

April - (spring breakup) Open river headgates as snow pack allows, striving for the earliest flow possible. Drain upstream storage reservoirs (Case #1, #2, #3) on to lower units to initiate open water to attract and hold waterfowl. These reservoirs are then refilled with spring run-off water and held at optimum levels.

May - Initiate meadow irrigation as soon as ditches are ice-free and operable. Perform ditch maintenance needed. Record water flow measurements.

June - Maintain reservoir levels and continue irrigation and maintenance. Record water flow measurements.

July - Consolidate water as necessary to provide brood habitat. Record water flow measurements.

August - Begin repairs on dikes and control structures and any new construction projects. Record water flow measurements. Adjust water to minimize any potential avian botulism outbreaks.

September - Prepare for scheduled winter fill of storage reservoirs as needed. Manage water levels to minimize any potential avian botulism outbreaks. Continue work on construction and repair projects.

October - Winterize water system, drain irrigation ditches, "set" water system in preparation for spring run-off. Continue construction/repair work as needed.

November - Normal freeze-up period. Pre-snowfall 'dirt work' still possible.

December - March - Normally cold, frozen conditions prevent water management. Nesting structures can be repaired/maintained and water management structures can be built.

#### I. 1995 Water Usage

Water usage is determined primarily by weekly recordings of water flows through Parshall flumes located just downstream from the various headgates or diversion structures in each irrigation ditch system. In instances where measuring devices have not been installed or where regular monitoring is not possible, estimates are made relative to the known water use in other irrigation ditch systems. Table II, reflects the amount of water diverted into the various irrigation systems serving Arapaho National Wildlife Refuge in 1995.

The total of 38,789 acre feet of water diverted in 1995 represents 50% more water than in 1994. Heavy, late spring precipitation and flooding of the Illinois River accounted for this major increase in water, resulting in the best refuge wetland conditions in years. A small amount of water was diverted into the Hubbard #2 ditch in the fall to top off some wetlands for the spring.

Several misconceptions need clarification concerning refuge ditches and total acre feet of water used. This total comes from adding most ditch flume acre feet readings to estimates of acre feet of several spring fed ditches. It should be noted that the Hubbard #2 ditch originates off the Illinois River. The Hubbard #3(Rat Ditch), Hubbard #4 and the Hubbard Caudle Ext. all originate off the Hubbard #2, therefore they are not added in the total acre feet diverted for the refuge. The refuge shares water rights on the Midland and the Everhard Baldwin ditches and total refuge acre feet for each of these ditches is figured as follows: Midland Hackley - actual flume acre feet reading; Midland Ross - Midland flume acre feet reading minus the Hackley, then divided by two, as about half this water is the refuge's; Everhard Baldwin - The refuge owns 47% of the water rights, thus the flume acre feet reading is multiplied by .47 for actual refuge water. The Oklahoma #1 flume is influenced by large volumes of non-refuge secondary water during irrigation season, so in many cases the total flume acre feet reading for this ditch is much higher than what is actually diverted out of the river by the refuge. If possible, total acre feet for the Oklahoma should be an estimated amount of the flume acre feet reading.

#### IV. Proposed 1996 Water Use

Water use in 1996 will not be substantially different from that planned for previous years. If possible all wetlands will be filled as early as possible in the spring to maximize spring run-off use. Optimum water levels will be maintained for as long as possible to encourage waterfowl mating, nesting, and brood rearing.

One of the following general plans will be implemented dependent upon the availability of water in 1996:

Plan A - Average Water Year

1. Refuge ponds will be filled as early as possible to encourage spring migrants to mate and nest on the refuge.
2. Meadow areas will be irrigated by take-outs in the diversion ditches or sub-irrigated by seepage from the ditches.
3. As many ponds as possible will be maintained at optimum levels for as long as possible. If necessary some ponds may be sacrificed for more important brood ponds later in the summer.
4. Following the upstream irrigation season of hay meadows, increased flow in the Illinois River may be used to refill refuge ponds (where necessary) in order to provide fall migrational habitat and reserve water for the following year.

Plan B - Extremely Wet Water Year

1. Marginal meadow areas not normally irrigated will be irrigated to provide additional improved wildlife habitat.
2. Additional water will be circulated through impoundments keeping them fresh, which will aid in the production of emergent and submergent vegetation and encourage invertebrates as sources of food and cover for wildlife.
3. Water will run longer in the season keeping impoundments relatively full at freeze-up. This will help ensure that at least some water will be available the following spring even in the event of a dry year.
4. By running the water longer, many small wetland depressions in the meadows can be maintained as brood-rearing habitat, thus preventing concentrations of broods on a few ponds where they are more susceptible to predation and disease outbreaks such as avian botulism.

Plan C - Extremely Dry Water Year

1. Fill as many ponds as possible to capacity and maintain to provide water for breeding and nesting pairs and cover for broods and molters.

2. Irrigate refuge meadows adjacent to permanent bodies of water.
3. Irrigate refuge meadows further removed from permanent ponds as available water permits.
4. Suspend implementation of drawdowns to conserve as much water for as long as possible.

V. 1993-1997 Planned Drawdown

A five-year drawdown plan was initiated in 1993 for several of the ponds. This plan was updated by reviewing past year's drawdowns, vegetation growth, invertebrate populations, and dike repair needs. Scheduled drawdowns may be canceled or postponed if the prevailing water condition so dictates. Lack of water can effectively result in an unscheduled drawdown for certain ponds and may be used as such even if it does not coincide with the existing plan. Table I.

As we continue to monitor vegetation growth and invertebrate populations within our ponds we will update our drawdown program as necessary. Occasionally water management is dictated by priorities set for rehabilitation of dikes and control structures. As more rehabilitation is accomplished many of the ponds will take their turn in drawdown status, at least for a short time.

VI. Comments and Problems

The following water management related projects were accomplished in 1995 at Arapaho NWR.

1. Rehabilitation of Hampton #2, Abraham and Rat ditch pond dikes.
2. A new water diversion structure for the outlet of MacFarlane Reservoir was installed by a private contractor.
3. Numerous ditches on the Hackley, Soap Creek and Case tract were cleaned.

The following work, not in priority order, is needed and will be accomplished as manpower and working conditions permit:

1. Construction of new ponds as priorities and working conditions permit.
2. Rehabilitate Spring Creek and Antelope pond dikes as directed by Dam Safety Inspections.

3. Placement of rip-rap on several dikes.
4. Determine surface acreage and storage capacity for eleven existing ponds and all new ponds.
5. Surveys of impoundment outlets and installation of water level gauges (as directed in Dam Safety Inspections).
6. Replace five deteriorating or missing river headgates on the Hill & Crouter, Dryer, Ward #2, Everhard & Baldwin and Ish & Baldwin ditches.
7. Continue ditch clean-outs as time and money permit (by contract if possible).
8. Measure capacity of Fish Hatchery spring (Potter Creek) to determine amount of water flowing into Potter #2 ditch.

Table I

Pond	Date	Prescription	Status
South McCammon Pond	April 1993	Release water to North McCammon Pond. Keep pond dry through summer refill fall of 1993.	Drawdown was implemented in the spring of 1993, pond was tilled and left dry. Pond filled in the spring of 1995.
Buddys Pond	October 1993	Release water to Living Room pond. Keep pond dry, filling it the spring of 1995.	Drawdown completed in 1994, pond tilled and started filling in fall 1994. Filling completed in spring of 1995.
Varney Pond	October 1993	Release water to Eisemann pond. Keep pond dry through summer of 1994 and fill the fall of 1994.	Drawdown was completed in 1994. Pond tilled and filled in the spring of 1995.
Abraham Pond	October 1994	Release water to Follett pond. Keep pond dry, filling it the spring of 1996.	Drawdown completed in the fall of 1994. Pond remained dry through 1995 and will fill in spring of 1996.
Hampton #2 Pond	October 1994	Release water to Potter Creek. Keep pond dry, filling it the spring of 1996.	Drawdown was completed in the fall of 1994. Pond remained dry through 1995 and will fill in spring 1996.
Wilson Pond	October 1995	Release water to Avocet pond. Keep pond dry, filling it the spring of 1997.	Drawdown was completed in the fall of 1994. Pond remained dry through 1995 and will fill in spring 1996. One year ahead of schedule.
Horseshoe Pond	October 1995	Release water to Wilson Pond. Keep pond dry, filling it spring of 1997.	Drawdown initiated. New not scheduled
76 ' Pond	October 1995	Release water to Cattail Pond. Keep pond dry, filling in spring of 1997.	Drawdown initiated. New not scheduled.
Spring Creek	October 1995	Release water to Fox Pond. Keep pond dry, filling in spring of 1997, when dike repair done.	Drawdown initiated. New not scheduled.
Antelope Pond	October 1996	Release water to Muskrat Pond. Keep pond dry, filling in spring of 1998, when dike repair done.	On schedule.
125 Pond	October 1996	Release water to Varney pond. Keep pond dry, filling it the spring of 1998.	On schedule.
Prairie Dog Pond	October 1997	Release water to Antelope pond. Keep pond dry, filling it the spring of 1999.	Delayed until 1997.

\*More ponds will be added to the drawdown schedule for 1996 and 1997 as they are identified with a need for dike work or rejuvenation.

Table II.

Headgate	1995 Acre Feet Diverted	
Antelope	250	✓
Boyce Brothers	1349	✓
Dryer	1930	✓
Everhard Baldwin	3076	✓
Hill & Crouter	845	✓
Home #1	2192	✓
Hubbard #1	1027	✓
Hubbard #2	6122	✓
Hubbard #3(Rat)*	617	←
Hubbard #4*	2002	✓
Hubbard Caudle*	3503	✓
Ish & Baldwin	125	✓
Midland (Ross)	2480	✓
Midland (Hackley)	1373	✓
North Park #6	1400	✓
Oklahoma #1(EST)	640	✓
Oklahoma #2	2959	✓
Potter #2	200	✓
Riddle Ditch	2623	✓
State Walden Pipeline	500	✓
State Walden Res.	35	✓
Ward #1	4838	✓
Ward #2	1488	✓
Ward #3	3337	✓
Total	38789	

\*NOT INCLUDED IN TOTAL.



# 1995 WATER USE REPORT - 1996 WATER MANAGEMENT PLAN

Mortenson Lake National Wildlife Refuge, Laramie, WY  
Administered by  
Arapaho National Wildlife Refuge, Walden, CO

## I. Water Rights

### Mortenson Lake NWR Water Rights

Priority	Ditch	Priority Date Use	Refuge CFS	Acres	Source
Permit #5617	Soda Lake Reservoir	1947 Storage Irrigation	153AF	--	Pioneer Ditch Natural Springs Runoff
Permit #20459	Soda Ditch	1947 Supplemental	--	188	Pioneer Ditch Natural Springs Runoff
Permit #5631	Harman Reservoir	1947 Storage	87AF	--	Pioneer Ditch Natural Springs Runoff
Permit #20133	Harman Ditch	1947 Irrigation	--	--	Pioneer Ditch Natural Springs Runoff
		1947 Irrigation	1.10	--	
Permit #4454	Johnson #1 Stock Res.	1962 Storage	1.37AF	--	Pioneer Ditch Runoff
Permit #4455	Johnson #2 Stock Rex.	1962 Storage	1.72AF	--	Pioneer Ditch Runoff
Permit #7259	Mortenson Lake	1967 Storage	247AF	--	Pioneer Ditch Natural Springs Runoff

## II. 1995 Water Usage

The only water the refuge received was supplemental runoff water in the South Canal from adjacent landowner Swanson. The South Canal flowed May 9th until June 17th, and again on June 24th to June 30th. The refuge received approximately 219 acre feet of water. This water was used for meadow irrigation and eventually flowed into Gibbs pond.

Several water management facilities were rehabilitated on the refuge this year. An outlet control structure was install in Mortenson Lake, and two ditch checks and take-outs were installed to facilitate water flow into Soda Lake and Gibbs Lake.

## III. Capacity of Refuge Lakes

Lakes	Maximum Surface Acres	Maximum Acre Feet	Actual Surface Acres (Est.)	
			4/95	12/95
Mortenson	65	247	63	65
Little Mortenson	--	--	--	--
Soda	46	152	40	46
Gibbs	--	--	--	--
Harman	--	--	--	--
TOTALS	111	399	103	111

## IV. 1996 Proposed Water Use

Any excess water in the South canal will be diverted for irrigation purposes as in pervious years.

## 1995 WATER USE REPORT - 1996 WATER MANAGEMENT PLAN

Hutton Lake National Wildlife Refuge, Laramie, WY  
Administered by  
Arapaho National Wildlife Refuge, Walden, CO

### I. Water Rights

#### Hutton Lake NWR Water Rights

Priority	Ditch	Priority Date Use	Refuge CFS	Acres	Source
1	Red	1871 Irrigation	.15	10	Sand Creek
9	Richards	1888 Irrigation	.60	42	Sand Creek
12 1/2	Hutton Lake Reservoir	1892 Irrigation	2,500AF	--	Sand Creek
Permit #5212-E	1st Enlarge- ment Hutton Lake Ditch	1939 Irrigation Bird Refuge	1.6	112	Sand Creek
Permit #2304-E	Enlargement Kings Ditch	1909 Irrigation	Portion of 8.27	Portion of 579	Laramie River

### II. 1995 Water Usage

The Sand Creek headgate was open the first of January and remained open until March. The headgate was opened again in June with water flowing through mid August. Approximately 1216 acre feet were diverted this year, three times as much as last year. A majority of the water flowing into Rush Lake was diverted to Lake George, in order to maintain Wyoming toad habitat. Overflow from Lake George is ditched into Creighton Lake, with this wetland remaining well below capacity. Excess water from Rush Lake was diverted to Hoge Lake and overflow water from there flows into Hutton Lake which also remains well below capacity.

Water management work done on the refuge this year consisted of the following: repair of Sand Creek headgate; Sand Creek flume and dike rehabilitation; installation of an outlet structure in Lake George to facilitate the control of water levels in the lake for the Wyoming toad.

## III. Capacity of Refuge Lakes

Lakes	Maximum Surface Acres	Maximum Acre Feet	Actual Surface Acres (Est.)	
			4/95	12/95
Hutton	221 (variable)	1,135	50	90
Hoge	75	200	75	68
Rush	95	250	85	85
George	16	62	16	14
Creighton	210	2,525	90	110
TOTALS	617	4,172	316	367

## IV. 1996 Proposed Water Use

Divert whatever water is available during the winter months until early spring. Fill Rush Lake to near capacity, then divert water out of Rush lake to Lake George to maintain Wyoming toad habitat and then to the other ponds if there is enough water.

If time and funds permit the following work will be done: Sand Creek ditch will be cleaned out between headgate and flume; the ditch bank on the west side of the flume will be built up.

**1996 WATER MANAGEMENT PLAN  
1995 USE REPORT  
SHORT FORM**

Station Name  
Bamforth NWR, WY

Date of Inspection  
June 21, 1989

Water Right No.  
1887-Territorial

Source(s)  
Little Laramie River

Water Diverted: Yes ☒ No

Means of Diversion  
Rate

\*Impoundment(s): Yes ☒ No

Water Level 2 acre feet Approx.  
(Elevation or Est. Storage  
Amount)

\*Well(s)  
Free Flowing N/A gpm  
Pumped N/A gpm

Type of Use:  
Surface Irrigation ☒  
(Crop)  
Fish & Wildlife ☒  
Stock ☒  
Domestic

**Overall Climatic Conditions:**

Water conditions in 1995 were good, the Park Ditch was open 21 days with approximately 5 cfs flow, five times more cfs than last year. A total of 210 acre feet was diverted.

**Conditions of Facilities:**

The Park Ditch is in fair to poor condition and in need of some rehabilitation. The cost/benefit ratio of such rehab is questionable.

**Proposed Water Program:**

1996 - Continue to irrigate meadows when adequate water is available in the Park Ditch. Mr. Leonard Johnson, refuge neighbor and grazing permittee on the refuge, conducts all irrigation activities on the refuge as a condition of his permit.

**Comments:**

The Park Ditch contains 18.42 cfs of high water right that is not honored except in excellent run-off years because of the large amount of water appropriations senior to its 1887 and 1900 applications. The principal Little Laramie River water user is the Wheatland Irrigation District. The Park Ditch receives water only before the District "calls" for its water and only in proper adjudicated order. The Park Ditch headgate is the first one to be closed by the Water Commissioner when the Wheatland Irrigation District calls for water. Our water right for 1.71 cfs in the Park Ditch is therefore not a good water right.

Note: Everhard & Baldwin ditch diversion = 47% of total  
 Midland-Hackley ditch diversion = actual flume reading  
 Midland-Ross ditch = flume reading minus Hackley ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 Caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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DITCH: ANTELOPE DITCH	1995 AMT DIVERTED AF: 250	--	MEASUREMENT FLUME: N				
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BY DITCH - POND SUBTOTALS:	0.00	0
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1995 AMT DIVERTED AF: 1,349	--	MEASUREMENT FLUME: Y
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DITCH: BOYCE BROTHERS DITCH	3	8N	79W	14.95	15	1980	ILLINOIS RIVER
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BY DITCH - POND SUBTOTALS:	14.95	15
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1995 AMT DIVERTED AF: 1,930	--	MEASUREMENT FLUME: Y
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DITCH: EVERHARD & BALDWIN							
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BY DITCH - POND SUBTOTALS:	0.00	0
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1995 AMT DIVERTED AF: 3,076	--	MEASUREMENT FLUME: Y
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DITCH: HILL & CROUTER DITCH							
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BY DITCH - POND SUBTOTALS:	0.00	0
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1995 AMT DIVERTED AF: 845	--	MEASUREMENT FLUME: Y
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BY DITCH - POND SUBTOTALS:	0.00	0
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1995 AMT DIVERTED AF: 2,192	--	MEASUREMENT FLUME: Y
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DITCH: HOME POND	33	NW SW NE	79W	27.05	52	1978	ILLINOIS RIVER
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Note: Everhard & Baldwin ditch diversion = 47% of total  
 Midland-Hackley ditch diversion = actual flume reading  
 Midland-Ross ditch = flume reading minus Hackley ditch  
 divided by 2

Oklahoma ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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DITCH: HUBBARD DITCH #1 1995 AMT DIVERTED AF: 1.027 -- MEASUREMENT FLUME: Y

BY DITCH - POND SUBTOTALS:	0.00	0
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DITCH: HUBBARD DITCH #2

1995 AMT DIVERTED AF: 6.122 -- MEASUREMENT FLUME: Y

BIRDIE POND	SW	20	8N	80W	3.44	9	1976	ILLINOIS RIVER	to #3, #4 & Hub/caudle
EAGLE POND	NW NW SW	20	8N	80W	7.74	22	1976	ILLINOIS RIVER	to #3, #4 & Hub/caudle
SOLBERG POND	S1/2 SW	20	8N	79W	8.60	11	1985	ILLINOIS RIVER	to #3, #4 & Hub/caudle

BY DITCH - POND SUBTOTALS:

19.78 42

DITCH: HUBBARD DITCH #3 (Rat) - #2 Lateral

1995 AMT DIVERTED AF: 0 -- MEASUREMENT FLUME: Y

ANTELOPE POND	N1/2 SW	7	8N	80W	22.42	77	1974	ILLINOIS RIVER	
BUDDIES POND	SE	13	8N	80W	6.93	15	1972	ILLINOIS RIVER	
EISEMANN POND	NW SE	18	8N	80W	5.29	15	1986	ILLINOIS RIVER	
GOOSE POND	SE	13	8N	80W	15.52	49	NATL	ILLINOIS RIVER	& #4
LIVING ROOM POND	SE NE SW	13	8N	80W	2.41	6	1972	ILLINOIS RIVER	& #4
MARSH POND	SE	13	8N	80W	12.58	15	NATL	ILLINOIS RIVER	& #4
MUSKRAT POND	NW	7	7N	80W	99.00	390	1985	ILLINOIS RIVER	& #4
PATEN POND	SW SE	18	8N	79W	3.30	10	1986	ILLINOIS RIVER	
PRAIRIE DOG POND	SW NE SW	18	8N	79W	4.95	18	1986	ILLINOIS RIVER	
RAT DITCH POND	NW	20	8N	79W	2.82	0	1987	ILLINOIS RIVER	CAP NOT DET
ROADSIDE POND, NORTH	SE SE SE	12	8N	80W	0.00	4	1972	ILLINOIS RIVER	& #4
ROADSIDE POND, SOUTH	SE NW NE	13	8N	80W	2.42	6	1972	ILLINOIS RIVER	& #4

BY DITCH - POND SUBTOTALS:

177.64 605

Note: Everhard & Baldwin Ditch diversion = 47% of total

Midland-Hackley Ditch diversion = actual flume reading

Midland-Ross Ditch = flume reading minus Hackley Ditch

divided by 2

Oklahoma Ditch = estimated flume reading  
Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
Caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	ACRES	SURFACE	AF	CAP.	CONST.	SOURCE	REMARKS
QUARTER(S) - SEC.-TWN.-RANGE								
1995 AMT DIVERTED AF: 0								
DITCH: HUBBARD DITCH #4 - #2 Lateral								
MEASUREMENT FLUME: N								

#125 POND	NE SE	19	8N	79W	6.62	17	1986	ILLINOIS RIVER
#76 POND	NE NW	13	8N	80W	25.06	61	1976	ILLINOIS RIVER
ALKALI POND	NE	11	8N	80W	12.79	22	NATL	ILLINOIS RIVER
AVOCET POND	SE	11	8N	80W	8.52	12	NATL	ILLINOIS RIVER
BLUEBILL POND	SE	14	8N	80W	6.22	19	NATL	ILLINOIS RIVER
BREWERS POND	SW NW	14	8N	80W	23.37	60	1978	ILLINOIS RIVER
BULRUSH POND	NW NW	12	8N	80W	9.74	16	1981	ILLINOIS RIVER
CASE CANTOUR, MIDDLE	NW NW	13	8N	80W	1.06	0	1977	ILLINOIS RIVER
CASE CANTOUR, NORTH	NW	13	8N	80W	1.35	0	1977	ILLINOIS RIVER
CASE CANTOUR, SOUTH	SW NW	13	8N	80W	1.08	0	1977	ILLINOIS RIVER
CASE RES. #2 ANNEX POND	NW	13	8N	80W	5.69	13	NATL	ILLINOIS RIVER
CASE RESERVOIR #1	SE SW SE	13	8N	80W	26.40	124	1970	ILLINOIS RIVER
CASE RESERVOIR #2	SW NW	13	8N	80W	28.30	106	1952	ILLINOIS RIVER
CASE RESERVOIR #3	SW NW NW	14	8N	80W	15.13	67	1952	ILLINOIS RIVER
CATTAIL POND	SW SE	12	8N	80W	4.06	9	1980	ILLINOIS RIVER
ELK POND	NW SW	13	8N	80W	34.88	90	1976	ILLINOIS RIVER
GREASEWOOD POND	SW SW	12	8N	80W	4.41	10	1980	ILLINOIS RIVER
HEADWATERS POND	NE SW	24	8N	80W	11.90	0		ILLINOIS RIVER
HORSESHOE POND	SE NE	15	8N	80W	0.92	2	1975	ILLINOIS RIVER
KITCHEN POND	SW	13	8N	80W	4.07	9	NATL	ILLINOIS RIVER
N. TOUR ROUTE POND	SE	14	8N	80W	0.00	0	1979	ILLINOIS RIVER
POTTER CREEK POND	NE SE	12	8N	80W	35.98	111	1974	ILLINOIS RIVER
S. TOUR ROUTE POND	SE	14	8N	80W	0.00	0	1979	ILLINOIS RIVER
VARNEY POND	N1/2 SW	19	8N	79W	9.71	21	1986	ILLINOIS RIVER
WILSONS POND	SW SW SW	11	8N	80W	6.75	14	1978	ILLINOIS RIVER
BY DITCH - POND SUBTOTALS:								
284.01								
783								

DITCH: HUBBARD/CAUDLE EXT - Hubbard #2 Lateral 1995 AMT DIVERTED AF: 0 -- MEASUREMENT FLUME: Y

404 POND NW NE 18 8N 79W 0.00 0 1992 ILLINOIS RIVER CAP NOT DETERMINED



Note: Everhard & Baldwin Ditch diversion = 47% of total  
Midland-Hackley Ditch diversion = actual flume reading  
Midland-Ross Ditch = flume reading minus Hackley Ditch  
divided by 2

Oklaoma Ditch = estimated flume reading  
Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
Candle-Extn. totals included in Hubbard #2

POND NAME	QUARTER(S) - SEC.-TWN.-RANGE	ACRES	SURFACE	AF	YEAR	SOURCE	REMARKS
ABRAHAM POND	NE 20 8N 79W	6.25	20	1987	ILLINOIS RIVER		
DIVERSION POND	SE 20 8N 79W	3.93	0	1987	ILLINOIS RIVER		CAP NOT DET
FOLLETT POND	NW 20 8N 79W	2.99	10	1987	ILLINOIS RIVER		
HAMPTON #1 POND	SE 5 8N 79W	0.00	0	1990	ILLINOIS RIVER		CAP NOT DET
HAMPTON #2 POND	NE SE 5 8N 79W	6.67	22	1977	ILLINOIS RIVER		
HAMPTON #3 POND	NW SE 5 8N 79W	7.46	25	1978	ILLINOIS RIVER		
OLD ROAD POND	NW 20 8N 79W	0.00	0	1987	ILLINOIS RIVER		CAP NOT DET
RIZOR POND	NE 20 8N 79W	3.51	11	1987	ILLINOIS RIVER		
SMITH POND	SW SE NE 20 8N 79W	8.03	12	1981	ILLINOIS RIVER		
<b>BY DITCH - POND SUBTOTALS:</b>							
		38.84	100				
<b>1995 AMT DIVERTED AF: 125 -- MEASUREMENT FLUME: N</b>							
<b>BY DITCH - POND SUBTOTALS:</b>							
		0.00	0				
<b>DITCH: ISH &amp; BALDWIN DITCH</b>							
HACKLEY POND NORTH	SW SW 12 7N 80W	4.30	0		ILLINOIS RIVER		CAP NOT DETERMINED
HACKLEY POND SOUTH	SW SW 12 7N 80W	3.60	0		ILLINOIS RIVER		CAP NOT DETERMINED
RODRIGUEZ POND	NW NE 12 7N 80W	11.07	0		ILLINOIS RIVER		CAP NOT DETERMINED
ROSS POND	SE NE 1 8N 80W	4.37	5	1982	ILLINOIS RIVER		
<b>BY DITCH - POND SUBTOTALS:</b>							
		23.34	5				
<b>1995 AMT DIVERTED AF: 2.480 -- MEASUREMENT FLUME: N</b>							
<b>DITCH: MIDLAND-ROSS DITCH</b>							
BROCKER POND, SOUTH	NE NW SW 3 8N 79W	0.00	15		SPRING CREEK		Not Yet Constructed
FOX POND	SE NW NE 10 8N 79W	48.00	108	1992	SPRING CREEK		
SPRING CREEK POND	S1/2 NE NE 15 8N 79W	26.15	63	1980	SPRING CREEK		
<b>BY DITCH - POND SUBTOTALS:</b>							
		74.15	186				

Note: Everhard & Baldwin Ditch diversion = 47% of total

Midland-Hackley Ditch diversion = actual flume reading

Midland-Ross Ditch = flume reading minus Hackley Ditch

divided by 2

Oklahoma Ditch = estimated flume reading  
Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
Caudle-Extn. totals included in Hubbard #2

POND NAME	QUARTER(S) - SEC.-TWN.-RANGE	POINT OF DIVERSION	SURFACE ACRES	AF CAP.	CONST. YEAR	SOURCE	REMARKS
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## DITCH: NORTH PARK DITCH #6

1995 AMT DIVERTED AF: 1,400

MEASUREMENT FLUME: Y

BY DITCH - POND SUBTOTALS:	0.00	0
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1995 AMT DIVERTED AF: 640

MEASUREMENT FLUME: Y

## DITCH: OKLAHOMA DITCH #1

## DITCH: OKLAHOMA DITCH #2

1995 AMT DIVERTED AF: 2,959

MEASUREMENT FLUME: Y

BY DITCH - POND SUBTOTALS:	39.30	30
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ALLARD CONTOUR, MIDDLE	S1/2 NW	29	8N	79W	4.03	0	1981	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ALLARD CONTOUR, NORTH	S 1/2	20	8N	79W	2.85	0	1981	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ALLARD CONTOUR, SOUTH	NW	29	8N	79W	4.43	0	1981	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ANDERSON CONTOUR	S1/2	5	7N	79W	9.06	0	NATL	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ANDERSON DRAIN	S1/2	5	7N	79W	14.01	20	NATL	ILLINOIS RIVER	CAPACITY NOT DETERMINED
COYOTE POND	SW	20	8N	80W	1.52	3	1979	ILLINOIS RIVER	CAPACITY NOT DETERMINED
FISHERMAN'S PARKING POND	NE	5	7N	79W	0.00	0	NATL	ILLINOIS RIVER	CAPACITY NOT DETERMINED
POTHOLE POND	NW	5	8N	79W	3.40	7	1970	ILLINOIS RIVER	CAPACITY NOT DETERMINED

ALLARD POND, NORTH	NW SW NE	5	8N	79W	13.98	38	1978	ILLINOIS RIVER
ALLARD POND, SOUTH	SW NE SE	5	8N	79W	15.16	48	1978	ILLINOIS RIVER

BY DITCH - POND SUBTOTALS:	29.14	86
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## DITCH: POTTER DITCH #2

1995 AMT DIVERTED AF: 200

MEASUREMENT FLUME: N

FISH HATCHERY POND, EAST	NW SE	15	8N	80W	2.19	8	1950	FISH HATCHERY SPRING
FISH HATCHERY POND, WEST	N1/2 S1/2	15	8N	80W	0.93	2	1950	FISH HATCHERY SPRING

BY DITCH - POND SUBTOTALS:	3.12	10
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Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 Caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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DITCH: RIDDLE DITCH 1995 AMT DIVERTED AF: 2.623 -- MEASUREMENT FLUME: Y

BY DITCH - POND SUBTOTALS: 0.00 0

1995 AMT DIVERTED AF: 500 -- MEASUREMENT FLUME: N

DITCH: STATE WALDEN PIPELINE

BY DITCH - POND SUBTOTALS: 0.00 0

1995 AMT DIVERTED AF: 35 -- MEASUREMENT FLUME: N

DITCH: STATE WALDEN RES.

BY DITCH - POND SUBTOTALS: 0.00 0

1995 AMT DIVERTED AF: 4.838 -- MEASUREMENT FLUME: Y

DITCH: WARD DITCH #1

MCCAMMON POND, NORTH	NW NE NE	21	8N	79W	3.52	8	1972	ILLINOIS RIVER
MCCAMMON POND, SOUTH	SE NW NE	21	8N	79W	13.68	41	1978	ILLINOIS RIVER
WILLFORD POND	NW NE NW	15	8N	79W	15.55	62	1980	ILLINOIS RIVER

BY DITCH - POND SUBTOTALS: 32.75 111

1995 AMT DIVERTED AF: 1.488 -- MEASUREMENT FLUME: N

DITCH: WARD DITCH #2

BY DITCH - POND SUBTOTALS: 0.00 0

## 1995 WATER USE

Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 caudle-Extn. totals included in Hubbard #2

POND NAME	QUARTER(S) - SEC.-TWN.-RANGE	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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## DITCH: WARD DITCH #3

1995 AMT DIVERTED AF: 3.337

-- MEASUREMENT FLUME: Y

SCHOOL POND, NORTH	S1/2 NW SE 16	8N	79W	11.13	30	1978	ILLINOIS RIVER	* AND HUBBARD DITCH #1
SCHOOL POND, SOUTH	SW SW SE 16	8N	79W	10.65	27	1978	ILLINOIS RIVER	* AND HUBBARD DITCH #1

## BY DITCH - POND SUBTOTALS:

21.78

57

## GRAND TOTALS -

POND DIVERSIONS: 786 SA 2,082 - AF PONDS CAPACITY

DITCH DIVERSIONS: 37,416 AF 35,334 - AF MEADOW IRRIGATION

Author: Ginger Price at 6DE-MAIN  
Date: 4/3/98 8:45 AM  
Priority: Normal  
TO: Pam Rizor at 6DE-RWARP  
CC: Eugene Patten at 6DE-RWARP  
Subject: WMPs

Pam:

This is a follow-up for water use figures for 1996. I don't have any amounts for 96 use for the following Ditches:

Potter #2  
Ish & Baldwin  
Antelope  
St. Walden Pipeline  
St. Walden Reservoir.

Please provide those figures and I'll finalize the 96 report.

Thx  
Ginger

Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2  
 Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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DITCH: ANTELOPE DITCH	1995 AMT DIVERTED AF: 250	-- MEASUREMENT FLUME: N					
			0.00	0			
	BY DITCH - POND SUBTOTALS:		0.00				
			14.95	15			
DITCH: BOYCE BROTHERS DITCH	1995 AMT DIVERTED AF: 1,349	-- MEASUREMENT FLUME: Y					
			0.00	0			
	BY DITCH - POND SUBTOTALS:		0.00				
			14.95	15			
BROCKER POND, NORTH	NM	3	8N	79W	14.95	15	1980 ILLINOIS RIVER
DITCH: DRYER DITCH	1995 AMT DIVERTED AF: 1,930	-- MEASUREMENT FLUME: Y					
			0.00	0			
	BY DITCH - POND SUBTOTALS:		0.00				
			3.076				
DITCH: EVERHARD & BALDWIN	1995 AMT DIVERTED AF: 3,076	-- MEASUREMENT FLUME: Y					
			0.00	0			
	BY DITCH - POND SUBTOTALS:		0.00				
			0.00				
DITCH: HILL & GROUTER DITCH	1995 AMT DIVERTED AF: 845	-- MEASUREMENT FLUME: Y					
			0.00	0			
	BY DITCH - POND SUBTOTALS:		0.00				
			0.00				
DITCH: HOME DITCH #1	1995 AMT DIVERTED AF: 2,192	-- MEASUREMENT FLUME: Y					
			0.00	0			
	BY DITCH - POND SUBTOTALS:		0.00				
			0.00				
HOME POND	NW SW NE	33	9N	79W	27.05	52	1978 ILLINOIS RIVER

Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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DITCH: HUBBARD DITCH #1		1995 AMT DIVERTED AF: 1.027		MEASUREMENT FLUME: Y	
BY DITCH - POND SUBTOTALS:		27.05	52		

0.00	0
BY DITCH - POND SUBTOTALS:	
0.00	0

DITCH: HUBBARD DITCH #2		1995 AMT DIVERTED AF: 6.122		MEASUREMENT FLUME: Y	
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BIRDIE POND	SW	20	8N	80W	3.44	9	1976	ILLINOIS RIVER	to #3, #4 & Hub/caudle
EAGLE POND	NW NW SW	20	8N	80W	7.74	22	1976	ILLINOIS RIVER	to #3, #4 & Hub/caudle
SOLBERG POND	S1/2 SW	20	8N	79W	8.60	11	1985	ILLINOIS RIVER	to #3, #4 & Hub/caudle

BY DITCH - POND SUBTOTALS:		19.78	42
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DITCH: HUBBARD DITCH #3 (Rat) - #2 lateral		1995 AMT DIVERTED AF: 0		MEASUREMENT FLUME: Y	
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ANTELOPE POND	N1/2 SW	7	8N	80W	22.42	77	1974	ILLINOIS RIVER	
BUDDIES POND	SE	13	8N	80W	6.93	15	1972	ILLINOIS RIVER	
EISEMANN POND	NW SE	18	8N	80W	5.29	15	1986	ILLINOIS RIVER	
GOOSE POND	SE	13	8N	80W	15.52	49	NATL	ILLINOIS RIVER	& #4
LIVING ROOM POND	SE NE SW	13	8N	80W	2.41	6	1972	ILLINOIS RIVER	& #4
MARSH POND	SE	13	8N	80W	12.58	15	NATL	ILLINOIS RIVER	& #4
MUSKRAT POND	NW	7	7N	80W	99.00	390	1985	ILLINOIS RIVER	& #4
PATTEN POND	SW SE	18	8N	79W	3.30	10	1986	ILLINOIS RIVER	
PRAIRIE DOG POND	SW NE SW	18	8N	79W	4.95	18	1986	ILLINOIS RIVER	
RAT DITCH POND	NW	20	8N	79W	2.82	0	1987	ILLINOIS RIVER	CAP NOT DET
ROADSIDE POND, NORTH	SE SE SE	12	8N	80W	0.00	4	1972	ILLINOIS RIVER	& #4
ROADSIDE POND, SOUTH	SE NW NE	13	8N	80W	2.42	6	1972	ILLINOIS RIVER	& #4

BY DITCH - POND SUBTOTALS:		177.64	605
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Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 Caudle-Extn. totals included in Hubbard #2

## REMARKS

## SOURCE

YEAR  
CONST.CAP.  
AFSURFACE  
ACRESPOINT OF DIVERSION  
QUARTER(S) - SEC.-TWN.-RANGE

## POND NAME

DITCH: HUBBARD DITCH #4 - #2 Lateral

1995 AMT DIVERTED AF: 0

-- MEASUREMENT FLUME: N

#125 POND	NE SE	19	8N	79W	6.62	17	1986	ILLINOIS RIVER
#76 POND	NE NW	13	8N	80W	25.06	61	1976	ILLINOIS RIVER
ALKALI POND	NE	11	8N	80W	12.79	22	NATL	ILLINOIS RIVER
AVOCET POND	SE	11	8N	80W	8.52	12	NATL	ILLINOIS RIVER
BLUEBILL POND	SE	14	8N	80W	6.22	19	NATL	ILLINOIS RIVER
BREWERS POND	SW NW	14	8N	80W	23.37	60	1978	ILLINOIS RIVER
BULRUSH POND	NW NW	12	8N	80W	9.74	16	1981	ILLINOIS RIVER
CASE CANTOUR, MIDDLE	NW NW	13	8N	80W	1.06	0	1977	ILLINOIS RIVER
CASE CANTOUR, NORTH	NW	13	8N	80W	1.35	0	1977	ILLINOIS RIVER
CASE CANTOUR, SOUTH	SW NW	13	8N	80W	1.08	0	1977	ILLINOIS RIVER
CASE RES. #2 ANNEX POND	NW	13	8N	80W	5.69	13	NATL	ILLINOIS RIVER
CASE RESERVOIR #1	SE SW SE	13	8N	80W	26.40	124	1970	ILLINOIS RIVER
CASE RESERVOIR #2	SW NW	13	8N	80W	28.30	106	1952	ILLINOIS RIVER
CASE RESERVOIR #3	SW NW NW	14	8N	80W	15.13	67	1952	ILLINOIS RIVER
CATTAIL POND	SW SE	12	8N	80W	4.06	9	1980	ILLINOIS RIVER
ELK POND	NW SW	13	8N	80W	34.88	90	1976	ILLINOIS RIVER
GREASEWOOD POND	SW SW	12	8N	80W	4.41	10	1980	ILLINOIS RIVER
HEADWATERS POND	NE SW	24	8N	80W	11.90	0		ILLINOIS RIVER
HORSESHOE POND	SE NE	15	8N	80W	0.92	2	1975	ILLINOIS RIVER
KITCHEN POND	SW	13	8N	80W	4.07	9	NATL	ILLINOIS RIVER
N. TOUR ROUTE POND	SE	14	8N	80W	0.00	0	1979	ILLINOIS RIVER
POTTER CREEK POND	NE SE	12	8N	80W	35.98	111	1974	ILLINOIS RIVER
S. TOUR ROUTE POND	SE	14	8N	80W	0.00	0	1979	ILLINOIS RIVER
VARNEY POND	N1/2 SW	19	8N	79W	9.71	21	1986	ILLINOIS RIVER
WILSONS POND	SW SW SW	11	8N	80W	6.75	14	1978	ILLINOIS RIVER

BY DITCH - POND SUBTOTALS:

284.01

783

DITCH: HUBBARD/CAUDLE EXT - Hubbard #2 Lateral

1995 AMT DIVERTED AF: 0

-- MEASUREMENT FLUME: Y

404 POND NW NE 18 8N 79W 0.00 0 1992 ILLINOIS RIVER CAP NOT DETERMINED



Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 Caudle-Extn. totals included in Hubbard #2

POND NAME	QUARTER(S) - SEC.-TWN.-RANGE	ACRES	CAP.	YEAR	SOURCE	REMARKS
ABRAHAM POND	NE 20 8N 79W	6.25	20	1987	ILLINOIS RIVER	
DIVERSION POND	SE 20 8N 79W	3.93	0	1987	ILLINOIS RIVER	CAP NOT DET
FOLLETT POND	NW 20 8N 79W	2.99	10	1987	ILLINOIS RIVER	
HAMPTON #1 POND	SE 5 8N 79W	0.00	0	1990	ILLINOIS RIVER	
HAMPTON #2 POND	NE SE 5 8N 79W	6.67	22	1977	ILLINOIS RIVER	CAP NOT DET
HAMPTON #3 POND	NW SE 5 8N 79W	7.46	25	1978	ILLINOIS RIVER	
OLD ROAD POND	NW 20 8N 79W	0.00	0	1987	ILLINOIS RIVER	CAP NOT DET
RIZOR POND	NE 20 8N 79W	3.51	11	1987	ILLINOIS RIVER	
SMITH POND	SW SE NE 20 8N 79W	8.03	12	1981	ILLINOIS RIVER	
DITCH: ISH & BALDWIN DITCH						
1995 AMT DIVERTED AF: 125 -- MEASUREMENT FLUME: N						
BY DITCH - POND SUBTOTALS:						
0.00 0						
DITCH: MIDLAND-ROSS DITCH						
1995 AMT DIVERTED AF: 2.480 -- MEASUREMENT FLUME: N						
HACKLEY POND NORTH	SW 12 7N 80W	4.30	0		ILLINOIS RIVER	CAP NOT DETERMINED
HACKLEY POND SOUTH	SW 12 7N 80W	3.60	0		ILLINOIS RIVER	CAP NOT DETERMINED
RODRIGUEZ POND	NW 12 7N 80W	11.07	0		ILLINOIS RIVER	CAP NOT DETERMINED
ROSS POND	SE NE 1 8N 80W	4.37	5	1982	ILLINOIS RIVER	
BY DITCH - POND SUBTOTALS:						
23.34 5						
DITCH: NATL RUNOFF-NO DITCH						
1995 AMT DIVERTED AF: 0 -- MEASUREMENT FLUME: N						
BROCKER POND, SOUTH	NE NW SW 3 8N 79W	0.00	15			
FOX POND	SE NW NE 10 8N 79W	48.00	108	1992	SPRING CREEK	
SPRING CREEK POND	S1/2 NE NE 15 8N 79W	26.15	63	1980	SPRING CREEK	
BY DITCH - POND SUBTOTALS:						
74.15 186						

Not Yet Constructed

Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 Caudle-Extn. totals included in Hubbard #2

POND NAME	QUARTER(S) - SEC.-TWN.-RANGE	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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DITCH: NORTH PARK DITCH #6 1995 AMT DIVERTED AF: 1,400 -- MEASUREMENT FLUME: Y

BY DITCH - POND SUBTOTALS:	0.00	0
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1995 AMT DIVERTED AF: 640 -- MEASUREMENT FLUME: Y

ALLARD CONTOUR, MIDDLE	S1/2 NW	29	8N	79W	4.03	0	1981	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ALLARD CONTOUR, NORTH	S 1/2	20	8N	79W	2.85	0	1981	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ALLARD CONTOUR, SOUTH	NW	29	8N	79W	4.43	0	1981	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ANDERSON CONTOUR	S1/2	5	7N	79W	9.06	0	NATL	ILLINOIS RIVER	CAPACITY NOT DETERMINED
ANDERSON DRAIN	S1/2	5	7N	79W	14.01	20	NATL	ILLINOIS RIVER	CAPACITY NOT DETERMINED
COYOTE POND	SW	20	8N	80W	1.52	3	1979	ILLINOIS RIVER	CAPACITY NOT DETERMINED
FISHERMAN'S PARKING POND	NE	5	7N	79W	0.00	0	NATL	ILLINOIS RIVER	CAPACITY NOT DETERMINED
POTHOLE POND	NW	5	8N	79W	3.40	7	1970	ILLINOIS RIVER	CAPACITY NOT DETERMINED

BY DITCH - POND SUBTOTALS:	39.30	30
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1995 AMT DIVERTED AF: 2,959 -- MEASUREMENT FLUME: Y

ALLARD POND, NORTH	NW SW NE	5	8N	79W	13.98	38	1978	ILLINOIS RIVER
ALLARD POND, SOUTH	SW NE SE	5	8N	79W	15.16	48	1978	ILLINOIS RIVER

BY DITCH - POND SUBTOTALS:	29.14	86
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1995 AMT DIVERTED AF: 200 -- MEASUREMENT FLUME: N

FISH HATCHERY POND, EAST	NW SE	15	8N	80W	2.19	8	1950	FISH HATCHERY SPRING
FISH HATCHERY POND, WEST	N1/2 S1/2	15	8N	80W	0.93	2	1950	FISH HATCHERY SPRING

BY DITCH - POND SUBTOTALS:	3.12	10
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Note: Everhard & Baldwin Ditch diversion = 47% of total  
 Midland-Hackley Ditch diversion = actual flume reading  
 Midland-Ross Ditch = flume reading minus Hackley Ditch  
 divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 Caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	SURFACE	AF	YEAR	CONST.	SOURCE	REMARKS
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DITCH: RIDDLE DITCH 1995 AMT DIVERTED AF: 2.623 -- MEASUREMENT FLUME: Y

BY DITCH - POND SUBTOTALS: 0.00 0

1995 AMT DIVERTED AF: 500 -- MEASUREMENT FLUME: N

DITCH: STATE WALDEN PIPELINE

BY DITCH - POND SUBTOTALS: 0.00 0

1995 AMT DIVERTED AF: 35 -- MEASUREMENT FLUME: N

DITCH: STATE WALDEN RES.

BY DITCH - POND SUBTOTALS: 0.00 0

1995 AMT DIVERTED AF: 4.838 -- MEASUREMENT FLUME: Y

DITCH: WARD DITCH #1

MCCAMMON POND, NORTH	NW NE NE	21	8N	79W	3.52	8	1972	ILLINOIS RIVER
MCCAMMON POND, SOUTH	SE NW NE	21	8N	79W	13.68	41	1978	ILLINOIS RIVER
WILLFORD POND	NW NE NW	15	8N	79W	15.55	62	1980	ILLINOIS RIVER

BY DITCH - POND SUBTOTALS: 32.75 111

DITCH: WARD DITCH #2 1995 AMT DIVERTED AF: 1.488 -- MEASUREMENT FLUME: N

BY DITCH - POND SUBTOTALS: 0.00 0

## 1995 WATER USE

Note: Everhard &amp; Baldwin Ditch diversion = 47% of total

Midland-Hackley Ditch diversion = actual flume reading

Midland-Ross Ditch = flume reading minus Hackley Ditch

divided by 2

Oklahoma Ditch = estimated flume reading  
 Hubbard #3 (Rat), Hubbard #4 and Hubbard/  
 Caudle-Extn. totals included in Hubbard #2

POND NAME	POINT OF DIVERSION	QUARTER(S) - SEC. - TWN. - RANGE	SURFACE ACRES	AF CAP.	CONST.	SOURCE	REMARKS
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DITCH: WARD DITCH #3 1995 AMT DIVERTED AF: 3.337 -- MEASUREMENT FLUME: 1

SCHOOL POND, NORTH	S1/2 NW SE 16	8N 79W	11.13	30	1978	ILLINOIS RIVER	* AND HUBBARD DITCH #1
SCHOOL POND, SOUTH	SW SW SE 16	8N 79W	10.65	27	1978	ILLINOIS RIVER	* AND HUBBARD DITCH #1

BY DITCH - POND SUBTOTALS:

21.78

57

GRAND TOTALS -

POND DIVERSIONS: 786 SA 2,082 - AF PONDS CAPACITY

DITCH DIVERSIONS: 37,416 AF 35,334 - AF MEADOW IRRIGATION